

#### **Substance Identification**

Beilstein Registry Number 6654842

**Chemical Name** (5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid

(5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid Autoname

Molecular Formula C11H12O5S

Molecular Weight 256.27

Lawson Number 9659, 1774, 289

Type of Substance isocyclic Constitution ID 5733058 Tautomer ID 6297891 6-08

Beilstein Reference

## Field Availability List 1-4

Code	Field Name	Occ.
RX MP NMR CNR	Reaction Melting Point NMR Spectroscopy Reference	2 1 2 1

# Reaction 1 of 2

Reaction ID 2901564 Reactant BRN 2454332 3-chloromethyl-4-hydroxy-5-methoxy-benzaldehyde

506166 mercaptoacetic acid

**Product BRN** 6654842 (5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid

No. of Reaction Details

**Reaction Classification** Preparation

Yield 7 percent (BRN=6654842)

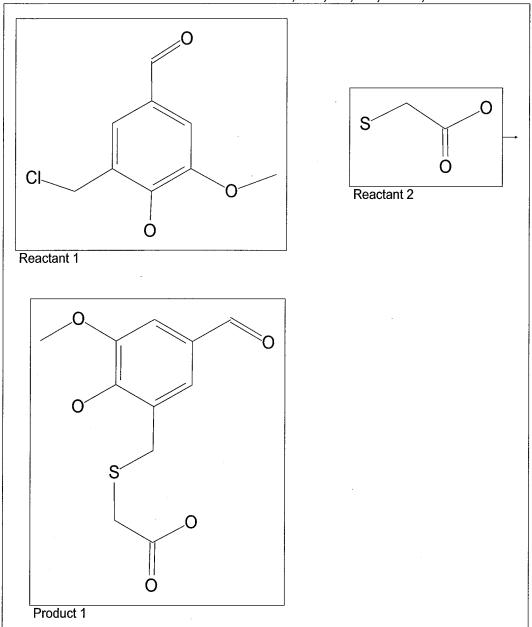
Reagent Et<sub>3</sub>N Solvent CH<sub>2</sub>Cl<sub>2</sub> Time 3 hour(s)

**Other Conditions** Ambient temperature

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Ref. 1

5853919; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.



## Reaction 2 of 2

Reaction ID 3786999

6654842 (5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid Reactant BRN

773697 malononitrile

**Product BRN** 6661603 [5-(2,2-dicyano-vinyl)-2-hydroxy-3-methoxy-benzylsulfanyl]-

acetic acid

1.

No. of Reaction Details

Reaction Classification Preparation

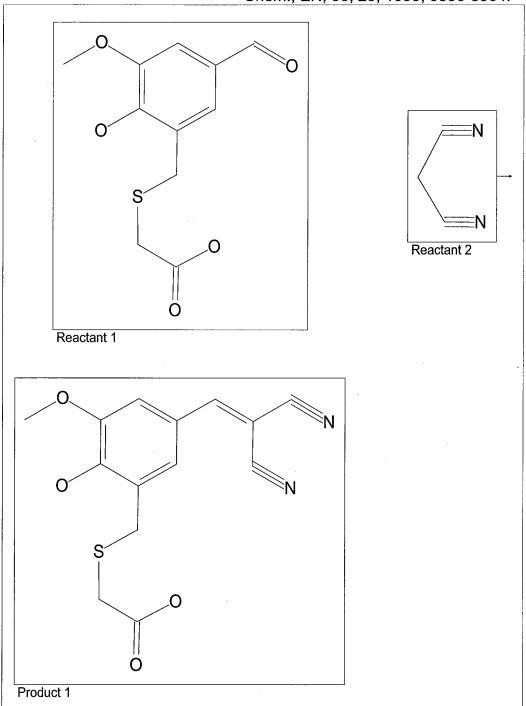
Yield 82 percent (BRN=6661603)

Reagent piperidine Solvent ethanol Time 3 hour(s)

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Ref. 1

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# **Melting Point**

VALUE (MP) C	Solvent (.SOL)	Entry Date	Note	Ref.
130				1

Ref. 1

<u>5853919</u>; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.

NMR Spectroscopy 1 of 2

Description Chemical shifts

Nucleus 1H

Solvents acetone-d6

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Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med.

Chem.; EN; 36; 23; 1993; 3556-3564.

NMR Spectroscopy 2 of 2

Description Spin-spin coupling constants

Solvents acetone-d6

Note 1 1H-1H

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**Reference** 

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